**TnP Question Bank for the forthcoming batches** (upload at – bit.ly/QuesBank18)

You are requested to mention the following details in the best possible manner for the junior batches to have an upper hand during their placements. Pls feel free to add any other sections that you deem fit.

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**Technical Questions** (Mention below all the technical questions asked during the interview and coding/technical round):

round 1- online aptitude - 20 questions aptitude + 30 question technical apti ( oops, c++ output) - easy to crack

round 2- written coding round (pen & paper) 5 question in 60 mins

Q1) Write code for inorder and preorder traversall of a tree.

Q2) given any linked list delete middle element of it.

Q3) parranthesis balacing - Given an expression string exp. Examine whether the pairs and

the orders of “{“,”}”,”(“,”)”,”[“,”]” are correct in exp.

eg- the program should print 'balanced' for exp = “[()]{}{[()()]()}”

and 'not balanced' for exp = “[(])”

Q4) given an array of numbers from 1 to n in which 1 no. is missing and 1 no. is repeated.

find the both in optimised way .

Q5)Shortest path in a Binary Maze

Given a MxN matrix where each element can either be 0 or 1.

We need to find the shortest path between a given source cell to a destination cell.

The path can only be created out of a cell if its value is 1.

(i wrote algo for this)

round 3 - first Technical Interview

first the interviewers asked me about my interest and the data structures i knew.

Q1 - they gave me a preorder traversall and inorder traversall of a tree asked me the logic of how to build a binary tree.

then had to write the code for the same

Q2 - given a sorted array which is now rotated in any direction and by any number of times.You have to find that element in min time complexity.

complexity analysis

oops concepts - pointers,runtime polymorphism,early binding , late binding , this pointer usage , write copy constructors , virtual function ,method overriding

projects discussion.

round 4 - second technical

write code for any class and make a copy constructor with deep copy.

runtime polymorphism , virtual functions , pure virtual functions , vtable , vptr.

oops concepts in much detail.

**HR Questions** (Mention below all the HR/Non-technical questions asked during the interview):

basic Hr questions .

**GD/ JAM Topic:**

Any other tips for juniors: